

Dario Bressanini

List of Publications by Year in descending order

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47
papers

1,017
citations

430442

18
h-index

454577

30
g-index

47
all docs

47
docs citations

47
times ranked

387
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Positronium chemistry by quantum Monte Carlo. I. Positronium-first row atom complexes. Journal of Chemical Physics, 1998, 108, 4756-4760. | 1.2 | 86 |
| 2 | Positron chemistry by quantum Monte Carlo. II. Ground-state of positron-polar molecule complexes. Journal of Chemical Physics, 1998, 109, 1716-1720. | 1.2 | 63 |
| 3 | Robust wave function optimization procedures in quantum Monte Carlo methods. Journal of Chemical Physics, 2002, 116, 5345-5350. | 1.2 | 63 |
| 4 | Stability of four-unit-charge systems: A quantum Monte Carlo study. Physical Review A, 1997, 55, 200-205. | 1.0 | 60 |
| 5 | Quantum Monte Carlo investigation of small 4He clusters with a 3He impurity. Journal of Chemical Physics, 2000, 112, 717-722. | 1.2 | 49 |
| 6 | Positron and positronium chemistry by quantum Monte Carlo. IV. Can this method accurately compute observables beyond energy?. Journal of Chemical Physics, 1999, 111, 108-114. | 1.2 | 48 |
| 7 | Positron and positronium chemistry by quantum Monte Carlo. V. The ground state potential energy curve of e+LiH. Journal of Chemical Physics, 2000, 113, 6154-6159. | 1.2 | 44 |
| 8 | Unexpected Symmetry in the Nodal Structure of the He Atom. Physical Review Letters, 2005, 95, 110201. | 2.9 | 44 |
| 9 | An investigation of nodal structures and the construction of trial wave functions. Journal of Chemical Physics, 2005, 123, 204109. | 1.2 | 40 |
| 10 | Nodal surfaces of helium atom eigenfunctions. Physical Review A, 2007, 75, . | 1.0 | 39 |
| 11 | Stability and positron annihilation of positronium hydride L=0,1,2 states: A quantum Monte Carlo study. Physical Review A, 1998, 57, 1678-1685. | 1.0 | 33 |
| 12 | Positron and positronium chemistry by quantum Monte Carlo. III. Ground state of [OH,Ps], [CH,Ps], and [NH2,Ps] complexes. Journal of Chemical Physics, 1998, 109, 5931-5934. | 1.2 | 24 |
| 13 | Nonadiabatic wavefunctions as linear expansions of correlated exponentials. A quantum Monte Carlo application to H2+ and Ps2. Chemical Physics Letters, 1997, 272, 370-375. | 1.2 | 23 |
| 14 | Quantum Monte Carlo study of the H α impurity in small helium clusters. Journal of Chemical Physics, 2000, 112, 69-76. | 1.2 | 23 |
| 15 | Implications of the two nodal domains conjecture for ground state fermionic wave functions. Physical Review B, 2012, 86, . | 1.1 | 23 |
| 16 | Comparison of different propagators in diffusion Monte Carlo simulations of noble gas clusters. Journal of Chemical Physics, 2003, 119, 5601-5606. | 1.2 | 19 |
| 17 | Between Classical and Quantum Monte Carlo Methods: α -Variational QMC. Advances in Chemical Physics, 0, , 37-64. | 0.3 | 19 |
| 18 | Many-electron correlated exponential wavefunctions. A quantum Monte Carlo application to H2 and He2+. Chemical Physics Letters, 1995, 240, 566-570. | 1.2 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Time step bias improvement in diffusion Monte Carlo simulations. <i>Physical Review E</i> , 2000, 61, 2050-2057. | 0.8 | 18 |
| 20 | Stability and production of positronium diatomic molecule complexes. <i>Journal of Chemical Physics</i> , 2001, 114, 10579-10582. | 1.2 | 18 |
| 21 | On the nodal structure of single-particle approximation based atomic wave functions. <i>Journal of Chemical Physics</i> , 2008, 129, 054103. | 1.2 | 18 |
| 22 | Positron Binding to Lithium Excited States. <i>Physical Review Letters</i> , 2012, 109, 223401. | 2.9 | 18 |
| 23 | What Is the Shape of the Helium Trimer? A Comparison with the Neon and Argon Trimers. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10880-10887. | 1.1 | 17 |
| 24 | Compact boundary-condition-determined wave function for positronium hydride (PsH). <i>Journal of Chemical Physics</i> , 2003, 119, 7037-7042. | 1.2 | 16 |
| 25 | Improved diffusion Monte Carlo propagators for bosonic systems using Itô calculus. <i>Journal of Chemical Physics</i> , 2006, 125, 184106. | 1.2 | 16 |
| 26 | Nodal surfaces and interdimensional degeneracies. <i>Journal of Chemical Physics</i> , 2015, 142, 214112. | 1.2 | 16 |
| 27 | Stability of four-body systems in three and two dimensions: A theoretical and quantum Monte Carlo study of biexciton molecules. <i>Physical Review A</i> , 1998, 57, 4956-4959. | 1.0 | 14 |
| 28 | Quantum Monte Carlo calculations of molecular electron affinities: First-row hydrides. <i>Journal of Chemical Physics</i> , 1999, 111, 6755-6758. | 1.2 | 14 |
| 29 | Explicitly correlated trial wavefunctions in quantum Monte Carlo calculations of excited states of Be and Be-. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 257-266. | 0.6 | 14 |
| 30 | Stability of He ₂ He ₄ and He ₃ He ₄ L=O Clusters. <i>Physical Review Letters</i> , 2003, 90, 133401. | 2.9 | 11 |
| 31 | Two positrons can form a chemical bond in (PsH) ₂ . <i>Journal of Chemical Physics</i> , 2021, 155, 054306. | 1.2 | 10 |
| 32 | Linear expansions of correlated functions: Variational Monte Carlo case study. <i>International Journal of Quantum Chemistry</i> , 1999, 74, 23-33. | 1.0 | 9 |
| 33 | Generalized variational principle for excited states using nodes of trial functions. <i>Physical Review E</i> , 2011, 84, 046705. | 0.8 | 9 |
| 34 | The stability of e+H ⁺ . <i>Journal of Chemical Physics</i> , 2021, 154, 224306. | 1.2 | 9 |
| 35 | Spatial-partitioning-based acceleration for variational Monte Carlo. <i>Journal of Chemical Physics</i> , 1999, 111, 6180-6189. | 1.2 | 8 |
| 36 | The Structure of the Asymmetric Helium Trimer ³ He ⁴ He ₂ . <i>Journal of Physical Chemistry A</i> , 2014, 118, 6521-6528. | 1.1 | 8 |

